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	09/682,098 22886 AFFYME' ATTN: CH 3380 CENT	09/682,098 22886 AFFYMETRIX, IN ATTN: CHIEF IP CO 3380 CENTRAL EXF	09/682,098 07/19/2001 22886 7590 08/15/2003 AFFYMETRIX, INC	09/682,098 07/19/2001 Derek Bernhart 22886 7590 08/15/2003 AFFYMETRIX, INC ATTN: CHIEF IP COUNSEL, LEGAL DEPT. 3380 CENTRAL EXPRESSWAY	09/682,098 07/19/2001 Derek Bernhart 3348.2 22886 7590 08/15/2003 AFFYMETRIX, INC ATTN: CHIEF IP COUNSEL, LEGAL DEPT. 3380 CENTRAL EXPRESSWAY SANTA CLARA, CA 95051 ART UNIT 2172

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	\rightarrow
•	•	09/682,098	BERNHART ET AL.	
0	ffice Action Summary	Examiner	Art Unit	
		Baoquoc N To	2172	
The Period for Rep	MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address	
A SHORTE THE MAILI - Extensions o after SIX (6) - If the period - If NO period - Failure to rep - Any reply rec earmed paten	ENED STATUTORY PERIOD FOR REPL NG DATE OF THIS COMMUNICATION. If time may be available under the provisions of 37 CFR 1. MONTHS from the mailing date of this communication. for reply specified above is less than thirty (30) days, a rep for reply is specified above, the maximum statutory period by within the set or extended period for reply will, by statut evived by the Office later than three months after the mailing it term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to be sufficiently within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS from the application to become ABANDON g date of this communication, even if timely file	imely filed ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).	
l	ponsive to communication(s) filed on			
l ' <u> </u>	,	nis action is non-final.		
	ce this application is in condition for allow ed in accordance with the practice under Claims			i
4)⊠ Clain	n(s) <u>1-44</u> is/are pending in the application	า.		
4a) O	of the above claim(s) is/are withdra	wn from consideration.	•	
5)☐ Clain	n(s) is/are allowed.			
6)⊠ Clain	n(s) <u>1-44</u> is/are rejected.			
	n(s) is/are objected to.		·	
8)☐ Clain	n(s) are subject to restriction and/o	or election requirement.		
Application Pa	apers	·		
9) <u></u> The s	pecification is objected to by the Examine	er.		
10) <u></u> The d	rawing(s) filed on is/are: a)□ acce	pted or b) objected to by the Exa	aminer.	
	licant may not request that any objection to the	·		
11) <u></u> The p	roposed drawing correction filed on	_ is: a)∭ approved b)∭ disappı	roved by the Examiner.	
If ap	pproved, corrected drawings are required in re	ply to this Office action.	•	
12) The o	ath or declaration is objected to by the Ex	kaminer.		
Priority under	35 U.S.C. §§ 119 and 120			
13)☐ Ackn	owledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).	
a)∐ All	b) Some * c) None of:			
1.[Certified copies of the priority documen	ts have been received.		
2.	Certified copies of the priority documen	ts have been received in Applica	tion No	
3.□ * See th	Copies of the certified copies of the price application from the International But attached detailed Office action for a list	ireau (PCT Rule 17.2(a)).	•	
14) Acknow	wledgment is made of a claim for domest	ic priority under 35 U.S.C. § 119	(e) (to a provisional applicatio	n).
_	The translation of the foreign language provided ment is made of a claim for domes	• •		
Attachment(s)				
2) Notice of Dr	eferences Cited (PTO-892) aftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)	
U.S. Patent and Trademark PTO-326 (Rev. 04-0		etion Summary	Part of Paper No. 8	



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DETAILED ACTION

1. Claims 1-44 are pending in this application. Claims 1, 4, 6, 7, 20, 21, and 29 are amended in the amendment filed 05/23/03.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 20 and 29 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blevins (US. Patent No. 5,594,858).

Regarding on claim 1, Blevins teaches a method for managing biological information comprising the steps of:

- (b) receiving a specification of an attribute for at least one of the one or more identifiers (user define attribute functions) (col. 7, lines 29-35);
- (c) generating a data template including at least one of the one or more identifiers (data prompts) (col. 10, lines 1-5), wherein the data template is configured to receive a value of each at least one identifier (value for attributes) (col. 17, lines 6-10)

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which represents the attribute specified for that identifier for the biological experiment (lab) (col. 17, lines 45-50); and

(d) receiving by the data template a value for the at least one identifier in accordance with the attribute specified for the identifier(input value) (col. 17, lines 7-10).

Blevins does not explicitly teach providing one or more identifier related to the use of the probe array. However, Blevins teaches, "the selection portion 224 provides a list of data prompts related to processes associated with the particular project that may be selected by a user to created the unique control template or modify an existing control template" (col. 10, lines 1-5). This teaches data prompts are the identifiers related to the project. Since the claim does not define what the probe array is the examiner equates to particular project. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to includes the data prompts as taught in Blevins to allow the generation of template by the user to selected the data prompts.

Regarding on claim 2, Blevins teaches (e) storing the value for the at least one identifier in a data structure (col. 11, lines 20-25).

Regarding on claim 3, Blevins teaches the data structure is included in a database (template library) (col. 7, lines 18-20).

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Regarding on claims 4 and 30, Blevins teaches the one or more identifiers comprise experiment identifiers (data prompts) (col. 10, lines 1-5) and the data templates comprise an experiment data template (list preferred or existing template) (col. 12, lines 1-10).

Regarding on claims 5 and 31, Blevins teaches the one or more identifiers comprise sample identifiers (data prompts) (col. 10, lines 1-5) and the data template comprises a sample data template (list preferred template) (col. 12, lines 1-10).

Regarding on claims 6 and 32, Blevins teaches the data structure comprises an experiment information file (col. 17, lines 28-33).

Regarding on claim 7, Blevins teaches displaying, prior to step (d), the data template to a first user (col. 9, line 60).

Regarding on claim 8, Blevins teaches the value is provided by the first user responsive to displaying the data template (col. 17, lines 5-10).

Regarding on claim 9, Blevins teaches the value is provided by the first user in accordance with a first type attribute (col. 17, lines 5-10).

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Regarding on claim 10, Blevins teaches the first type attribute is a data attribute, time attribute, integer attribute, floating point, data attribute, character string attribute, required attribute, or controlled attribute (col. 17, lines 43-49).

Regarding on claim 11, Blevins teaches the value is provided by the first user in accordance with a required attribute (col. 17, lines 5-10).

Regarding on claim 12, Blevins teaches the required attribute specifies that the value is either required or not required to be received (col. 17, lines 29-31).

Regarding on claim 13, Blevins teaches the value is provided by the user in accordance with a controlled attribute (col. 17, lines 45-50).

Regarding on claim 14, Blevins teaches the controlled attribute specifies that the value is to be one or more of a plurality of user-specified values specified by a second user (col. 17, lines 45-50).

Regarding on claim15, Blevins teaches the first and second users are different users (col. 10, lines 40-45).



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Regarding on claims 16 and 36, Blevins teaches (f) storing instrument information for at least one instrument in the data structure, wherein the instrument is included in an experiment related to the probe array (col. 17, lines 25-30).

Regarding on claims 17 and 37, Blevins teaches (f) storing image in the data structure, wherein the image data is based, at least in part, on scanning of the probe array (col. 7, lines 25-35).

Regarding on claims 18 and 38, Blevins teaches (g) analyzing the image data to generate results data (col. 17, lines 25-30); and

(h) storing the results data in the data structure (col. 17, lines 35-40).

Regarding on claim 19, Blevins teaches (i) tracking the value, the image data, and the result data (col. 7, lines 18-19).

Regarding on claim 20, Blevins teaches a method for managing biological experiment information generated through the performance of an experiment with probe array, the method comprising the steps of:

(a) receiving from a first user a selection of a first data template (selects the type of control template to be create) having a plurality of identifiers (data prompts) (col.

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12, lines 1-5) each identifying an attribute of the biological experiment (col. 11, lines 10-24);

- (b) displaying (display screen) the first data template to the first user in response to the selection (col. 12, lines 30-37);
- (c) receiving from the first user values (input value) for one more of the identifier (data prompts) (col. 10, lines 1-5) of the first data template in accordance with the attributes identified by the one or more identifiers (col. 7, lines 10-15); and
 - (d) saving the values in a data structure (col. 17, lines 35-40).

Blevins does not explicitly teach this is a biological experiment. However, Blevins teaches, "a particularly selected control template attribute such as temperatures, pressures, and the like, to be further discussed below" (col. 11, lines 13-15). This indicates that the attributes such as temperatures and pressure are the parameters for the lab experiment. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made modify the attributes in Blevins in order to conduct the biological experiment as claimed.

Regarding on claim 21, Blevins teaches the receiving step comprise the steps of:

- (1) displaying a list of names of plurality of data templates (col. 7, lines 60-63); and
- (2) receiving from the first user, a selection of one of the displayed list of name a name of the first data template (col. 11, lines 60-63).

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Regarding on claim 22, Blevins teaches the plurality of data templates include one or more default data templates (list preferred templates) (col. 12, lines 28-33).

Regarding on claim 23, Blevins teaches the list of names is displayed to the first user in a tree structure of a graphical user interface (col. 12, lines 1-4).

Regarding on claim 24, Blevins teaches the data structure includes an experiment information file (col. 12, lines 30-50).

Regarding on claim 25, Blevins teaches the experiment information file is included in a database (col. 12, lines 30-50).

Regarding on claim 26, Blevins teaches (e) generating the first data template based, at least in part, on a second user specifying the plurality of identifiers (col. 12, lines 30-50).

Regarding on claim 27, Blevins teaches generating the first template based, at least in part, on a second user specifying the attributes of the plurality of identifiers (col. 12, lines 60-62).

Regarding on claim 28, Blevins teaches the first and second users are different users (col. 10, lines 40-55).

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Regarding on claim 29, Blevins teaches a computer program product, comprising:

- (a) a template generator (generator 124) (col. 7, lines 18-20) that generates a data template including one or more identifiers (attributes) (col. 7, lines 10-15) of a biological experiment with probe arrays;
- (b) a value receiver (attributes) that receives values for the identifiers in accordance with their attributes (col. 7, lines 41-45); and
- (c) a data storage manager that stores values in a data structure (col. 7, lines 41-45);

wherein the values (input values) are based on one or more experiments on one or more probe arrays (col. 7, lines 65-67).

Blevins does not explicitly teach template is created for biological experiment with a probe arrays. However, Blevins teaches, "a particularly selected control template attribute such as temperatures, pressures, and the like, to be further discussed below" (col. 11, lines 13-15). This indicates that the attributes such as temperatures and pressure are the parameters for the lab experiment. Blevins teaches, "the selection portion 224 provides a list of data prompts related to processes associated with the particular project that may be selected by a user to created the unique control template or modify an existing control template" (col. 10, lines 1-5). This teaches data prompts are the identifiers related to the project. Since the claim does not define what the probe array is the examiner equates to particular project. Therefore, it would have been

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obvious to one ordinary skill in the art at the time of the invention was made to includes the data prompts as taught in Blevins to allow the generation of experiment template by the user to selected the data prompts.

Regarding on claim 34, Blevins teaches a template generator generates the data template in response to a first user specifying at least one attribute of the one or more identifiers (col. 12, lines 1-5).

Regarding on claim 35, Blevins teaches the data template is selected by a second user (col. 10, lines 40-55).

Regarding on claim 39, Blevins teaches a computer implemented system for managing information of probe array experiments, comprising:

A computer-readable storage medium (memory) (col. 5,lines 60-67);

A database (library 11) (col. 6, line1);

A data template generator (template generator 124) coupled to the computerreadable storage medium (col. 7, lines 18-20); and

An experiment manager (control template system) coupled to the computer-readable storage medium and the database (col. 7, lines 18-20),

Wherein the data template generator generates at least one user-defined data template (selects the type of control template to be created) and stores (save) the user-defined data template on the computer-readable medium (col. 12, lines 1-5), each user-

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defined data template defining attributes of a set of experiment identifiers (col. 11, lines 10-15), a data template being selected from the at least one user-defined data template (a list of predefined or existing templates) (col. 12, lines 1-5) by a user using the experiment manager, experiment identifiers being input (list of data prompts) (col. 10, lines 1-4) using the experiment manager according to the selected data template, the inputted experiment identifiers being stored in the database as an experiment information file (save) (col. 17, lines 34-36).

Blevins does not explicitly teach the experiment manager. However, Blevins teaches, "the control template system 120 includes the control template library 123 that communicates with the template generator 124" (col. 7, lines 18-20). Since the claim does not define what is the experiment manager. The examiner equates experiment manager is control template system 124. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify the control template system to be experiment manager to allow the user to select the attributes and the system to generate the templates.

Regarding on claim 40, Blevins teaches instrument information is included in the experiment information file (col. 17, lines 25-35).

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Regarding on claim 41, Blevins teaches a data processor (, couple to the database, for acquiring experiment data and storing the experiment data as an experiment data file in the database, a data analyzer, connected to the database, for analyzing result files in the database; and

A file manager (the control template library) for tracking the experiment file, the experiment data file, and analyzing results files (col. 7, lines 18-19).

Regarding on claim 42, Blevins teaches the experiment data file is an image file (col. 17, lines 25-35).

Regarding on claim 43, Blevins teach the file manager tracks the experiment information file, the experiment data file, and the analyzed results files according to the files names (col. 12, lines 18-37).

Regarding on claim 44 is rejected same as claim 39, in addition Blevins also teaches a computer-readable storage medium having at least one default data table stored thereon (predefined or existing templates) (col. 12, lines 1-5).

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is (703) 305-1949 or via e-mail Baoquoc N. To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached at (703) 305-4393.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

o (703) 746-7238 [After Final Communication]]

o (703) 746-7239 [Official Communication]

• (703) 746-7240 [Non-Official Communication]

Hand-delivered responses should be brought to:

Crystal Park II

2121 Crystal Drive

Arlington, VA 22202

Fourth Floor (Receptionist).

Baoquoc N. To

August 8, 2003

IN Ann

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